IN THE CLAIMS:

Please amend the claims, as follows:

Claim 1 (currently amended): A server that provides service to a client, comprising:

a public-key storage unit for storing a public key assigned to each service;

a challenge generator for generating a challenge to be sent from the server to the client after the server receives a request for the service from the client; and

an access privilege verifier for verifying, using a corresponding public key, whether a prescribed relationship exists between the challenge and a response to that challenge received from the client;

wherein the response is calculated based on a unique operation for the client and access privilege proving <u>data</u> that ~~data~~ is created from a private key corresponding to the public key[[,]] <u>assigned to the each service of the server</u>.

Claims 2-8 (canceled).

Claim 9 (previously presented): A server as recited in claim 1, wherein the server is a web server that supplies a web application to the client; and the public key is assigned to an individual web page.

Claim 10 (canceled).

Claim 11 (previously presented): A server as recited in claim 1, wherein the server

is a web server that supplies a web application to clients; and the public key is assigned to groups of web pages and is to verify the access privileges of the client for the web page when the server receives a request from the client to access a web page in one of the groups of web pages.

Claim 12 (canceled).

Claim 13 (previously presented): A server as recited in claim 1, further comprising: a script interpreter for interpreting script designed to control the contents of service.

Claims 14 - 15 (canceled).

Claim 16 (currently amended): A method executed in a server for providing service to a client ~~whererin~~ wherein a public key is assigned in advance to a service provided by the server, the method comprising the steps of:

generating a challenge when a request for the service is received from the client;

transmitting the challenge to the client; receiving a response to the challenge from the client;

verifying whether a prescribed relationship exists between the challenge and the response by using the public key assigned to the requested service; and

providing the requested service to the client only when the prescribed relationship exists[[.]];

wherein the response is calculated based on a unique operation for the client and

access privilege proving data that is created from a private key corresponding to the public key assigned to the service of the server.

Claim 17 (currently amended): A method executed in a client for requesting service to a server, the method comprising the steps of:

receiving a challenge from the server;

executing a unique operation assigned to the client wherein the unique operation is unique to the client;

generating a response based on the challenge received from the server, the result of the unique operation, and access privilege data that is created from a private key corresponding to the public key assigned to the service of the server; and

transmitting the response to the server.

Claims 18 - 21 (canceled).

Claim 22 (currently amended): A system comprising:

a server that provides service to a client;

the server further comprising:

a public-key storage unit that stores a public key assigned to the service;

a challenge generator that generates a challenge to be sent from the server to the client after the server receives a request for the service from the client;

an access privilege verifier that verifies whether a prescribed relationship exists between the challenge and a response, the response being corresponding to the challenge

and received from the client[[,]] ; and

the client that requests the service to the server;

the client further comprising:

an unique operation executer that executes an unique operation assigned to the client;

a response generator that generates the response to the challenge, the challenge being received from the server;

wherein the response is calculated based on the unique operation and <u>access privilege data that is created from</u> a private key corresponding to the public key <u>assigned to the service of the server</u>, and the unique operation is unique to the client.

Claim 23 (previously presented): The system according to claim 22, wherein the server sends the challenge to the client with a condition for using the service.

Claim 24 (previously presented): The system according to claim 22, wherein the unique operation is used under conditions that a common cryptographic hash function is assigned to all clients and different data is assigned to each client.

Claim 25 (currently amended): A client that requests service to a server, comprising:

an unique operation executor that executes a unique operation assigned to the client;

an access privilege proving data storage unit that stores access privilege <u>proving</u>

~~providing~~ data, the access privilege <u>proving</u> ~~providing~~ data being created from a private key corresponding to a public key assigned to the requested service and result of <u>a same</u> ~~the~~ unique operation <u>to one executed by the unique operation executor</u>;

a response generator that generates the response to the challenge, the challenge being received from the server[[,]] <u>;</u> and

wherein the response is calculated based on result of the unique operation and the access privilege <u>proving</u> ~~providing~~ data, and unique operation is unique to the client.

Claim 26 (previously presented): The client according to claim 25, wherein the access privilege providing data storage unit is included in a portable device.